# Mitsubishi Q Series Ethernet

(Supports QJ71E71 / QJ71E71-B2 / QJ71E71-B5 / QJ71E71-100 Series Module)

## HMI Factory Setting:

Baud rate: 192.168.0.1 Controller Station Number: 1025 Control Area / Status Area: D0 / D10

## Connection

Standard jumper Cable/ Network Cable without jumper (Auto-detected by HMI)

### Definition of PLC Read/Write Address

### a. Registers

Туре		Format	Deed (M/site Deerse	Dete Length	Note	
		Word No. (n)	Read/write Range	Data Length		
Input	PLC	Xn	X0 – X1FF0	Word	Hexadecimal, <u>2</u>	
Output	PLC	Yn	Y0 - Y1FF0	Word	Hexadecimal, <u>2</u>	
Internal Relay	pLC	Mn	M0 - M8176	Word	<u>2</u>	
Special Internal Relay		<b>M</b> n	<b>M</b> 9000 - <b>M</b> 9240	Word	<u>3</u>	
Link Relay	PLC	Bn	<b>B</b> 0 – <b>B</b> 1FF0	Word	Hexadecimal, <u>2</u>	
Annunciator	PLC	Fn	<b>F</b> 0 - <b>F</b> 2032	Word	<u>2</u>	
Timer Value		<b>TN</b> n	<b>TN</b> 0 – <b>TN</b> 2047	Word		
Counter Value	PLC	<b>CN</b> n	<b>CN</b> 0 - <b>CN</b> 2047	Word	PLC1.	
Data Register		Dn	<b>D</b> 0 - <b>D</b> 8191	Word		
Special Data Register	PLC	Dn	<b>D</b> 9000 - <b>D</b> 9255	Word	PLG1."	
Link Register		Wn	<b>W</b> 0 – <b>W</b> 1FFF	Word	Hexadecimal	

### b. Contacts

		Format	Deed (Milita Demas	Nete	
	туре	Bit No. (b)	Read/write Range	NOTE	
Input		Xb	<b>X</b> 0 – <b>X</b> 1FFF	Hexadecimal	

Output	Yb	Y0 - Y1FFF	Hexadecimal
Internal Relay	Mb	M0 - M8191	PLC
Special Internal Relay	Mb	M9000 - M9255	
Туре	Format Bit No. (b)	Read/Write Range	Note
Link Relay	Bb	BO – B1FFF	Hexadecimal
Annunciator	Fb	F0 - F2047	M CA M
Timer Contact	TSb	TS0 - TS2047	
Timer Coil	TCb	TC0 - TC2047	M CV W
Counter Contact	CSb	<b>CS</b> 0 - <b>CS</b> 2047	
Counter Coil	CCb	<b>CC</b> 0 - <b>CC</b> 2047	N CA M

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- Before using this communication protocol, the user needs to set communication module via GX Developer programming tools. For more detailed information regarding the setting method, please refers to Mitsubishi PLC User Manual.
- 2) The device address must be the multiple of 16.
- 3) The device address must be the multiple of 16 plus 9000.

## Settings

Screen Editor

1. HMI Configuration Setting

onfiguratio	on								- D
Standard	Communicatio	n Print I	Default Ot	hers					
Add	Move	Up	PLC1.	Recovery th	ie IP add	ress in	HMI	PLC1.it	PL
Delete	Move I	Down		HMI Name		HMI			
-20	COMI			HMI IP Addres	ss	192	. 168 . 0	. 2	
20	COM2			Subnet Mask		255	. 255 . 255	. 0	
□ <b>□</b>	Ethernet			Default Gatewa	y	0	. 0 . 0	. 0	
	Base Port		PLC1						
			- 21.0 <sup>1</sup>						
			- 21.0 <sup>1</sup>						
			- 21.0 <sup>1</sup>						
	PL013	PLOVI	PLOA						
							ок	Cancel	
o1.1	0LC1. <sup>31</sup>	01.01.X	-1.C/1	olot.it		1.1	010111	0LC1.X	

<b>DUP</b> Series HMI Connection Manua	<b>a/</b>
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# 2. PLC Configuration Setting

Add	Move Up	- CANS	-Communication Pa	arameter	
		PLY	HMI Station	0	
Delete	Aove Down		IP Address	192 . 168 . 0 . 1	
			COM Port	1025	
_у сом		PLC' N	PLC1.M	PPCUN BPCUN BPC	57.M
Base I	Port				
		eres in			
			Controller Settings		
			Controller	🍠 Q Series Ethernet	~
					1. A. 194
		PLC1 M	Password	12345678	
		PLC M	Password PLC Station	12345678	
			Password PLC Station Comm. Delay	12345678 1 🛫 0 🛫	
			Password PLC Station Comm. Delay Timeout(ms)	12345678 1 💌 0 💌 300 💌	
			Password PLC Station Comm. Delay Timeout(ms) Retry Count	12345678 1 0 300 3	
			Password PLC Station Comm. Delay Timeout(ms) Retry Count	12345678 1 0 300 3 Size Limit	
		PLO 11	Password PLC Station Comm. Delay Timeout(ms) Retry Count I Optimize	12345678 1 0 300 3 Size Limit	

## GX Developer (V8.35M)

## 1. Network Parameter MNET/10H Ethernet Settings

ltem	Setting	PLC1.II
Network Type	Ethernet	
Starting I/O No.	0000	PLC1.it
Network No.	1	
Group No.		PLC1.1
Station No.	1	
Mode	On-line	PLC1.I

2. Operation Settings

ltem	Setting
Communication Data Code	Binary code
Initial Timing	Always wait for OPEN
IP Address	192.168.0.1
Send Frame Setting	Ethernet (V2.0)
Enable Write at RUN time	Enable
TCP Living Confirmation Setting	Use the KeepAlive

## 3. Open Settings

ltem	Setting
Protocol	TCP
Open Method	Unpassive
Fixed buffer	Send
Fixed buffer communication procedure	Procedure exist
Existence confirmation	No confirm
Host Station Port No.	0401(HEX)

4. For more detailed information regarding the setting method, please refers to Mitsubishi PLC User Manual.